| L Number | Hits | Search Text | DB | Time stamp |
|---|---|---|---|---|
| 1 | 7054 | (transmi$7 adj rate) and compensat$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 14:23 |
| 2 | 4308 | ((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 13:17 |
| 3 | 321 | (((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 13:19 |
| 4 | 225 | ((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 13:19 |
| 5 | 165 | (((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate)) and (time adj domain) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 13:20 |
| 6 | 136 | ((((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate)) and (time adj domain)) and (frequency adj domain) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 13:21 |
| 7 | 57 | (((((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate)) and (time adj domain)) and (frequency adj domain)) and "DMT" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 13:21 |
| 8 | 2872 | (transmi$7 adj rate) and compensation | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 14:24 |
| 9 | 1836 | ((transmi$7 adj rate) and compensation) and (((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 14:24 |
| 10 | 202 | (((transmi$7 adj rate) and compensation) and (((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4))) and ((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 14:24 |
| 11 | 142 | ((((transmi$7 adj rate) and compensation) and (((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4))) and ((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT))) and (((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 14:24 |
| 12 | 103 | (((((transmi$7 adj rate) and compensation) and (((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4))) and ((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT))) and (((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate))) and ((((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate)) and (time adj domain)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 14:24 |
| 13 | 84 | ((((((transmi$7 adj rate) and compensation) and (((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4))) and ((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT))) and (((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate))) and ((((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate)) and (time adj domain))) and (((((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate)) and (time adj domain)) and (frequency adj domain)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 14:25 |

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| 14 | 30 | (((((((transmi$7 adj rate) and compensation) and (((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4))) and ((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT))) and (((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate))) and ((((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate)) and (time adj domain))) and (((((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate)) and (time adj domain)) and (frequency adj domain))) and ((((((((transmi$7 adj rate) and compensat$3) and (zer$pad$4 or zero pad$4)) and (IFFT or FFT)) and (data adj rate)) and (time adj domain)) and (frequency adj domain)) and "DMT") | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 14:25 |
| - | 386 | 375/220.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:14 |
| - | 2060 | 375/222.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 13:53 |
| - | 658 | 375/260.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 13:53 |
| - | 314 | 341/61.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:02 |
| - | 1188 | 370/465.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:02 |
| - | 744 | 370/535.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:03 |
| - | 570 | 370/537.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:04 |
| - | 302 | 370/538.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:04 |
| - | 96 | 370/539.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:05 |
| - | 45 | 370/541.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:05 |
| - | 51 | 370/543.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:08 |
| - | 5158 | "DMT" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:08 |

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|---|---|---|---|---|
| - | 2970 | 86, 92, 375/260.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:09 |
| - | 240 | (86, 92, 375/260.ccls.) and "DMT" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:10 |
| - | 492155 | downstream same3 upstream | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:10 |
| - | 177 | ((86, 92, 375/260.ccls.) and "DMT") and (downstream same3 upstream) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:12 |
| - | 13898 | "codec" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:12 |
| - | 25 | (((86, 92, 375/260.ccls.) and "DMT") and (downstream same3 upstream)) and "codec" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 15:22 |
| - | 1 | "05790514" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:56 |
| - | 3 | "06285654" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 14:59 |
| - | 181 | 370/536.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 15:24 |
| - | 10 | 370/536.ccls. and 370/537.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 15:32 |
| - | 1652 | 116, 128, 134, 140, 146, 370/543.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 15:33 |
| - | 1617 | pad$4 near zero | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 15:34 |
| - | 1617 | zero near pad$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 15:35 |
| - | 2 | (116, 128, 134, 140, 146, 370/543.ccls.) and (zero near pad$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 15:42 |
| - | 13723 | "fft" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 15:42 |
| - | 1780 | "ifft" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 15:42 |

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| - | 628 | (time adj domain adj equalizer) or "TEQ" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 15:45 |
| - | 522712 | 158, 176, 188, 224, 242, 248, ((time adj domain adj equalizer) or "TEQ") | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 15:47 |
| - | 266 | (116, 128, 134, 140, 146, 370/543.ccls.) and (158, 176, 188, 224, 242, 248, ((time adj domain adj equalizer) or "TEQ")) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 16:11 |
| - | 6550 | (rate same compensat$4) same transmi$7 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/14 13:13 |
| - | 15 | ((116, 128, 134, 140, 146, 370/543.ccls.) and (158, 176, 188, 224, 242, 248, ((time adj domain adj equalizer) or "TEQ"))) and ((rate same compensat$4) same transmi$7) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 16:22 |
| - | 955 | 375/219.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 16:26 |
| - | 3788 | 164, 375/219.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 16:28 |
| - | 267 | (164, 375/219.ccls.) and "DMT" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 16:29 |
| - | 191 | ((164, 375/219.ccls.) and "DMT") and (downstream same3 upstream) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 16:30 |
| - | 2 | (((164, 375/219.ccls.) and "DMT") and (downstream same3 upstream)) and (zero near pad$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/06/19 16:30 |
| - | 1105 | 370/498.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:15 |
| - | 1750 | 370/503.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:21 |
| - | 2852 | (transmi$6 adj1 rate adj1 compensat$4) same2 (rate near compensat$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 08:35 |
| - | 6370 | (zero-pad$5 or zero$pad$4) same1 (transmit$4 adj1 path) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:46 |
| - | 8 | ((transmi$6 adj1 rate adj1 compensat$4) same2 (rate near compensat$4)) and ((zero-pad$5 or zero$pad$4) same1 (transmit$4 adj1 path)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:39 |
| - | 1021 | 375/219.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:43 |

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| - | 2175 | 375/222.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:43 |
| - | 683 | 375/377.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:43 |
| - | 3663 | 9, 10, 375/377.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:43 |
| - | 1 | (((transmi$6 adj1 rate adj1 compensat$4) same2 (rate near compensat$4)) and ((zero-pad$5 or zero$pad$4) same1 (transmit$4 adj1 path))) and (9, 10, 375/377.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:44 |
| - | 14 | ((transmi$6 adj1 rate adj1 compensat$4) same2 (rate near compensat$4)) and (9, 10, 375/377.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:54 |
| - | 4598 | 375/219-222.ccls. or 375/377.ccls. or 375/260.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 07:58 |
| - | 18 | ((transmi$6 adj1 rate adj1 compensat$4) same2 (rate near compensat$4)) and (375/219-222.ccls. or 375/377.ccls. or 375/260.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 08:27 |
| - | 3 | "06252920" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 08:19 |
| - | 1 | "05940459" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 08:19 |
| - | 1 | ((zero-pad$5 or zero$pad$4) same1 (transmit$4 adj1 path)) and (((transmi$6 adj1 rate adj1 compensat$4) same2 (rate near compensat$4)) and (375/219-222.ccls. or 375/377.ccls. or 375/260.ccls.)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 08:29 |
| - | 1 | (((transmi$6 adj1 rate adj1 compensat$4) same2 (rate near compensat$4)) and ((zero-pad$5 or zero$pad$4) same1 (transmit$4 adj1 path))) and (375/219-222.ccls. or 375/377.ccls. or 375/260.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 08:35 |
| - | 21 | (transmi$6 adj1 rate adj1 compensat$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 08:35 |
| - | 1 | (((zero-pad$5 or zero$pad$4) same1 (transmit$4 adj1 path)) and (375/219-222.ccls. or 375/377.ccls. or 375/260.ccls.)) and ((transmi$6 adj1 rate adj1 compensat$4) ) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 08:36 |
| - | 139 | ((zero-pad$5 or zero$pad$4) same1 (transmit$4 adj1 path)) and (375/219-222.ccls. or 375/377.ccls. or 375/260.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 14:39 |
| - | 5 | "cyclic prefix" and bocure.xp. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 11:10 |
| - | 7 | "cyclic prefix" and (bocure.xp. or bocure.xa.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 11:11 |

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|---|---|---|---|---|
| - | 3 | "06285720" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/12/12 14:40 |

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|---|---|---|---|---|---|
| 1 | US 20030231700 A1 | 20031218 | 148 | Vertical adaptive antenna array for a discrete multitone spread spectrum communications system | 375/144 |
| 2 | US 20030165159 A1 | 20030904 | 14 | Method for compensating for peak values during a data transmission with discrete multitone symbols and a circuit arrangement for carrying out the method | 370/465 |
| 3 | US 20030086366 A1 | 20030508 | 115 | Adaptive communications methods for multiple user packet radio wireless networks | 370/208 |
| 4 | US 20020159506 A1 | 20021031 | 148 | Vertical adaptive antenna array for a discrete multitone spread spectrum communications system | 375/147 |
| 5 | US 20020122465 A1 | 20020905 | 179 | Highly bandwidth-efficient communications | 375/141 |
| 6 | US 20010031016 A1 | 20011018 | 15 | Enhanced bitloading for multicarrier communication channel | 375/264 |
| 7 | US 6735255 B1 | 20040511 | 20 | Correlation based method of determining frame boundaries of data frames that are periodically extended | 375/260 |
| 8 | US 6643340 B1 | 20031104 | 7 | Carrier phase derived symbol timing | 375/354 |
| 9 | US 6628704 B1 | 20030930 | 20 | Equalizer training for ADSL transceivers under TCM-ISDN crosstalk environment | 375/219 |
| 10 | US 6621851 B1 | 20030916 | 180 | Priority messaging method for a discrete multitone spread spectrum communications system | 375/130 |
| 11 | US 6608864 B1 | 20030819 | 10 | Method and apparatus for fault recovery in a decision feedback equalizer | 375/233 |
| 12 | US 6600776 B1 | 20030729 | 144 | Vertical adaptive antenna array for a discrete multitone spread spectrum communications system | 375/147 |
| 13 | US 6584144 B2 | 20030624 | 143 | Vertical adaptive antenna array for a discrete multitone spread spectrum communications system | 375/147 |

| | Current XRef | Inventor | Image Doc. Displayed |
|---|---|---|---|
| 1 | | Alamouti, Siavash et al. | US 20030231700 |
| 2 | 370/437 | Straussnigg, Dietmar | US 20030165159 |
| 3 | 375/150 | Branlund, Dale A. et al. | US 20030086366 |
| 4 | | Alamouti, Siavash et al. | US 20020159506 |
| 5 | | Agee, Brian G. et al. | US 20020122465 |
| 6 | 370/431 | Seagraves, Ernest | US 20010031016 |
| 7 | 370/506; 370/510; 375/343; 375/360 | Smart, Kevin J. et al. | US 6735255 |
| 8 | 375/260; 375/326; 375/371 | Strait, Jeffrey C. | US 6643340 |
| 9 | 370/292; 375/231; 375/232; 375/348; 375/350; 455/307; 708/323 | Long, Guozhu et al. | US 6628704 |
| 10 | 370/242; 375/135 | Agee, Brian G. et al. | US 6621851 |
| 11 | 375/350 | Strait, Jeffrey C. | US 6608864 |
| 12 | 375/150; 375/349 | Alamouti, Siavash et al. | US 6600776 |
| 13 | 375/150; 375/347 | Alamouti, Siavash et al. | US 6584144 |

| | Document ID | Issue Date | Pages | Title | Current OR |
|---|---|---|---|---|---|
| 14 | US 6546056 B1 | 20030408 | 15 | Timing recovery in a multi-tone modem | 375/260 |
| 15 | US 6480522 B1 | 20021112 | 179 | Method of polling second stations for functional quality and maintenance data in a discrete multitone spread spectrum communications system | 375/130 |
| 16 | US 6438186 B1 | 20020820 | 7 | Carrier phase derived symbol timing | 375/354 |
| 17 | US 6359923 B1 | 20020319 | 244 | Highly bandwidth efficient communications | 375/130 |
| 18 | US 6353629 B1 | 20020305 | 23 | Poly-path time domain equalization | 375/222 |
| 19 | US 6137839 A | 20001024 | 57 | Variable scaling of 16-bit fixed point fast fourier forward and inverse transforms to improve precision for implementation of discrete multitone for asymmetric digital subscriber loops | 375/260 |
| 20 | US 6055268 A | 20000425 | 75 | Multimode digital modem | 375/229 |
| 21 | US 6044107 A | 20000328 | 76 | Method for interoperability of a T1E1.4 compliant ADSL modem and a simpler modem | 375/222 |
| 22 | US 6038251 A | 20000314 | 75 | Direct equalization method | 375/222 |
| 23 | US 6021167 A | 20000201 | 61 | Fast equalizer training and frame synchronization algorithms for discrete multi-tone (DMT) system | 375/354 |
| 24 | US 6021158 A | 20000201 | 78 | Hybrid wireless wire-line network integration and management | 375/211 |
| 25 | US 6002722 A | 19991214 | | Multimode digital modem | 375/295 |
| 26 | US 5999563 A | 19991207 | | Rate negotiation for variable-rate digital subscriber line signaling | 375/222 |
| 27 | US 5987061 A | 19991116 | 73 | Modem initialization process for line code and rate selection in DSL data | 375/222 |
| 28 | US 5970088 A | 19991019 | 64 | Reverse channel next cancellation for MDSL modem pool | 375/222 |

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|---|---|---|---|
| 14 | 375/364 | Rosenlof, John R. | US 6546056 |
| 15 | 370/242; 375/135 | Hoole, Elliott et al. | US 6480522 |
| 16 | 375/260; 375/326; 375/371 | Strait, Jeffrey C. | US 6438186 |
| 17 | 370/342; 375/135; 375/136 | Agee, Brian G. et al. | US 6359923 |
| 18 | 375/229; 375/349; 375/350; 708/312; 708/323 | Pal, Debajyoti | US 6353629 |
| 19 | 370/210 | Mannering, Dennis G. et al. | US 6137839 |
| 20 | 375/231 | Timm, William C. et al. | US 6055268 |
| 21 | | Gatherer, Alan et al. | US 6044107 |
| 22 | 375/229; 375/231 | Chen, Walter Y. | US 6038251 |
| 23 | 375/222 | Wu, Song | US 6021167 |
| 24 | 375/220 | Schurr, Paul E. et al. | US 6021158 |
| 25 | 375/222; 375/357 | Wu, Song | |
| 26 | 370/229; 370/484; 370/494; 375/219 | Polley, Michael O. et al. | |
| 27 | | Chen, Walter Y. | US 5987061 |
| 28 | 370/201; 375/346; 379/417 | Chen, Walter Y. | US 5970088 |

| | Document ID | Issue Date | Pages | Title | Current OR |
|---|---|---|---|---|---|
| 29 | US 5910970 A | 19990608 | 62 | MDSL host interface requirement specification | 375/377 |
| 30 | US 5909463 A | 19990601 | 24 | Single-chip software configurable transceiver for asymmetric communication system | 375/220 |

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|---|---|---|---|
| 29 | 375/222; 379/93.01; 709/200 | Lu, Xiaolin | US 5910970 |
| 30 | 370/276; 370/295; 370/464; 370/480; 375/219; 375/221; 375/222; 455/73 | Johnson, Terence L. et al. | US 5909463 |